

**From:** [Sy, William](#)  
**To:** [Mishkin, Katherine](#)  
**Subject:** RE: Photos of passive diffusion sampling at Rolling Knolls  
**Date:** Tuesday, January 06, 2015 3:25:00 PM

---

Katie,

I would be interested in the pictures and description, but I don't have access to the NY G drive, maybe use OneDrive?

Bill

---

**From:** Mishkin, Katherine  
**Sent:** Tuesday, January 06, 2015 3:02 PM  
**To:** Sy, William  
**Subject:** FW: Photos of passive diffusion sampling at Rolling Knolls

Hi Bill,

Diana mentioned that you may be interested in these photos and process description. Do you have access to the G drive?

Katie

---

Katherine Ryan Mishkin  
Geologist  
Superfund Technical Support Section  
U.S. EPA Region 2  
290 Broadway, 18th Floor  
New York, NY 10007  
(p) 212-637-4449  
(f) 212-637-4439

---

**From:** Mishkin, Katherine  
**Sent:** Tuesday, January 06, 2015 1:28 PM  
**To:** Alvey, Robert; Cutt, Diana; Filipowicz, Urszula; Flynn, Kathryn; McPherson, Julie; Metz, Chloe; Modica, Edward; Nace, Charles; Ofrane, Rebecca; Olsen, Marian; Scorca, Michael; Singh, Sharissa; Smith, Lora

**Cc:** Sivak, Michael; Mitchell, Tanya; Clemetson, Michael

**Subject:** Photos of passive diffusion sampling at Rolling Knolls

Hi TSS –

I thought you may all be interested in photos showing passive diffusion bags being prepped and installed at the Rolling Knolls site.

The first photo is a cooler full of water attached to a hose, where air is being injected to cause the water to bubble. The purpose of this first step is to reduce the DO levels as much as possible. Once the levels reach 5% DO, then they start filling the passive diffusion bags with water. They collect the water with a graduated cylinder then fill the bags outside the cooler w/ about 250 mL of low DO water. Then they put a mesh coating on the outside of the bag to protect it from tearing (6037). Photo 6038 is showing the collection of a blank sample. Once the mesh coating is on, they put the 250 mL bag in a PVC slotted pipe that will be placed in the ground. There were about 6-10 PVC pipes per sampling location so we can get enough sample volume for multiple analysis and splits. The last photos are showing the installation of the samples in the ground. A shallow trench was dug, then all

the cylinders were connected by a rope and were layed side-by-side.  
Let me know if you have any questions about what the photos are showing.  
You can find the photos here:  
G:\ERRDDIV-NY\+New Jersey Sites\RollingKnolls\Photos  
Katie

---

Katherine Ryan Mishkin  
Geologist  
Superfund Technical Support Section  
U.S. EPA Region 2  
290 Broadway, 18th Floor  
New York, NY 10007  
(p) 212-637-4449  
(f) 212-637-4439